Title (en)
REDUCING AUDIO DISTORTION IN AN AUDIO SYSTEM

Title (de)
VERRINGERUNG VON AUDIOVERZERRUNGEN IN EINEM AUDIOSYSTEM

Title (fr)
RÉDUCTION DE DISTORSION AUDIO DANS UN SYSTÈME AUDIO

Publication
EP 2974370 A4 20160309 (EN)

Application
EP 14779400 A 20140306

Priority
• US 201313797590 A 20130312
• US 2014021425 W 20140306

Abstract (en)
[origin: US2014270207A1] An audio system comprises an audio driver configured to receive a target audio signal and a feedback signal and to generate an adjusted audio signal responsive to the target audio signal and the feedback signal. A loudspeaker is configured to convert the adjusted audio signal into acoustical sound. A test signal generator is configured to generate a test signal having a higher frequency than the target audio signal. The test signal causes a test current to flow through the loudspeaker. A current sensing circuit is configured to measure the test current flowing through the loudspeaker and to generate a current sense signal indicative of the test current. A feedback circuit is configured generates the feedback signal responsive to the current sense signal.

IPC 8 full level
H04R 3/00 (2006.01)

CPC (source: EP US)
H04R 3/002 (2013.01 - EP US); **H04R 3/04** (2013.01 - EP US); **H04R 3/08** (2013.01 - US); **H04R 29/001** (2013.01 - US); **H04R 29/003** (2013.01 - US)

Citation (search report)
• [XI] US 2005031139 A1 20050210 - BROWNING RAYMOND [US], et al
• [E] EP 2890160 A1 20150701 - NXP BV [NL]
• See references of WO 2014164233A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
US 2014270207 A1 20140918; **US 9301071 B2 20160329**; CN 105191346 A 20151223; CN 105191346 B 20181016; EP 2974370 A1 20160120; EP 2974370 A4 20160309; EP 2974370 B1 20170712; HK 1213411 A1 20160630; JP 2016510966 A 20160411; JP 2017085623 A 20170518; JP 6067921 B2 20170125; JP 6449219 B2 20190109; KR 20150127619 A 20151117; US 10129642 B2 20181113; US 2016183002 A1 20160623; WO 2014164233 A1 20141009

DOCDB simple family (application)
US 201313797590 A 20130312; CN 201480012931 A 20140306; EP 14779400 A 20140306; HK 16101366 A 20160205; JP 2016247761 A 20161221; JP 2016500759 A 20140306; KR 20157024696 A 20140306; US 2014021425 W 20140306; US 201615055705 A 20160229